

IN THE CLAIMS

1. (Currently Amended) In a storage area network, a method for identifying the impact of event occurrences comprising:

identifying a configuration of managed entities of interest in the storage area network, identifying the configuration further comprising:

determining, based on a set of business processes, business operations dependent on particular manageable entities; and designating the determined manageable entities as manageable entities of interest;

determining relations between the managed entities of interest and other managed entities in the storage area network, the relations indicative of an event at a managed entity having an affect on another managed entity;

caching recently accessed relations to provide a cache of effected managed entities;

registering for notification of events affecting, based on the determined relations, the identified manageable entities;

receiving an indication of an event affecting a registered manageable entity; and

determining, via the determined relations, other manageable entities affected by the received event, the determining comprising traversing the cache of effected managed entities and selectively invoking a relation service operable to identify other managed entities effected by a particular managed entity according to the relations if no match is found in the cache.

2. (Original) The method of claim 1 wherein determining the other manageable entities further involves:

traversing the relations between managed entities from the manageable entity directly affected by the event; and

identifying, from the traversing, manageable entities of interest affected by the received event.

3. (Original) The method of claim 2 further comprising storing the relations between the manageable entities, the relations operable to be mapped in response to corresponding events

4. (Original) The method of claim 3 wherein determining affected manageable entities further comprises:
traversing a mapping of events and affected manageable entities;
matching the received event to the mapping of events and affected manageable entities; and
traversing the relations using the manageable entity corresponding to the matching event to determine affected manageable entities.

5. (Original) The method of claim 1 wherein determining the relations further comprises parsing the manageable entities to identify managed entities of interest, the managed entities of interest including managed entities effected directly or indirectly by an event at another managed entity.

6. (Original) The method of claim 1 wherein registering for notification of events affecting manageable entities of interest further comprises identifying types of events affecting a particular manageable entity and other manageable entities of interest relative to the particular manageable entity based on the determined relations.

7. (Canceled) ~~The method of claim 1 wherein determining the affected managed entities further comprises invoking a relation service operable to identify other managed entities effected by a particular managed entity according to the relations.~~

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8. (Canceled) ~~The method of claim 1 wherein determining affected managed entities further comprises traversing a cache of effected managed entities and selectively invoking the relation service if no match is found in the cache.~~

9. (Canceled)

10. (Original) The method of claim 1 further comprising integrating, via an adaptor, an indication of the identified manageable entity of interest and the triggering event with a service impact monitor operable to apply the manageable entity of interest to determine affected business processes.

11. (Currently Amended) A method for correlating operational events with enterprise processes to evaluate impact of network occurrences comprising:

identify a model of events and objects, the model operable to enumerate events corresponding to objects and further operable to enumerate objects corresponding to other objects via a relation and wherein objects are manageable entities in a storage area network, the manageable entities responsive to a server and console controlling the storage area network;

selecting, based on a level of overview scrutiny of the network, objects indicative of performance to monitor, selecting the objects indicative of performance to monitor further comprising:

determining, based on a set of business processes, business operations dependent on particular manageable entities; and

designating the determined manageable entities as manageable entities of interest for monitoring;

enumerating events operable to affect the selected object to be monitored;

building, by observing interconnections between the objects, virtual relationships between objects, the interrelations indicative of a dependency relation between objects;

identify events directly affecting at least one of the selected objects;

traverse the built virtual relationships to determine objects indirectly affected by the identified directly affected object;

registering with an event service to receive events corresponding to an occurrence of an enumerated event;

awaiting an occurrence corresponding to a registered event;

reporting the event and the indirectly, affected objects; and

identifying, in a SIM manager, enterprise processes corresponding to the indirectly affected objects.

12. ~~(Canceled) The method of claim 11 wherein objects are manageable entities in a storage area network, the manageable entities responsive to a server and console controlling the storage area network.~~

13. (Original) The method of claim 11 further comprising:

displaying via a graphic output device, the affected manageable entities; and

tagging affected objects indicative of the sequence of relations affecting successive objects, the tagging indicative of direct and indirect impact of the events.

14. (Currently Amended) A server for identifying the impact of event occurrences in a managed information network comprising a computer processing device responsive to computer program code on a computer readable storage medium that, when executed, causes the computer processing device to perform steps, the server further comprising:

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an interface to a manageable entity database having a configuration file, the interface operable to access a configuration file indicative of managed entities of interest in the storage area network, the configuration file for identifying the configuration by:

determining, based on a set of business processes,
business operations dependent on particular manageable entities;
and

designating the determined manageable entities as the
manageable entities of interest;

a rule engine operable to determine relations between the managed entities of interest and other managed entities in the storage area network, the relations indicative of an event at a managed entity having an affect on another managed entity, the rule engine further operable to register for notification of events affecting, based on the relations, the identified manageable entities; and

an adapter responsive to the rule engine for receiving an indication of an event affecting a registered manageable entity, the adapter further operable to determine, via the determined relations, other manageable entities affected by the received event; and

wherein the adapter is further operable to traverse a cache of effected managed entities and selectively invoking the relation service if no match is found in the cache.

15. (Original) The server of claim 14 wherein the rule engine is further operable to:

traverse the relations between managed entities from the manageable entity directly affected by the event; and

identify, from the traversing, manageable entities of interest affected by the received event.

16. (Original) The server of claim 14 further comprising a relations file in the manageable entity database operable to store the relations between the manageable entities, the relations operable to be mapped in response to corresponding events

17. (Original) The server of claim 16 wherein the rule engine is further operable to determine affected manageable entities by:

traversing a mapping of events and affected manageable entities;

matching the received event to the mapping of events and affected manageable entities; and

traversing the relations in the relations file using the manageable entity corresponding to the matching event to determine affected manageable entities.

18. (Original) The server of claim 14 wherein the rule engine is operable to parsing the manageable entities to identify managed entities of interest, the managed entities of interest including managed entities effected directly or indirectly by an event at another managed entity.

19. (Original) The server of claim 14 wherein the rule engine registers for notification of events affecting manageable entities of interest by identifying types of events affecting a particular manageable entity and further identifying other manageable entities of interest relative to the particular manageable entity based on the determined relations.

20. (Original) The server of claim 14 wherein the adapter is operable to invoke a relation service operable to identify other managed entities effected by a particular managed entity according to the relations.

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21. ~~(Canceled) The server of claim 14 wherein the adapter is further operable to traverse a cache of effected managed entities and selectively invoking the relation service if no match is found in the cache.~~

22. (Original) The server of claim 14 wherein the configuration file is adapted to identify, based on a set of business processes, business operations dependent on particular manageable entities.

23. (Original) The server of claim 14 wherein the adaptor is operable to communicate an indication of the identified manageable entity of interest and the triggering event to a service impact monitor operable to apply the manageable entity of interest to determine affected business processes.

24. (Currently Amended) A computer program product having a computer readable medium operable to store computer program logic embodied in computer program code encoded thereon for identifying the impact of event occurrences in a managed information network comprising:

computer program code for identifying a configuration of managed entities of interest in the storage area network, identifying the configuration further comprising:

determining, based on a set of business processes, business operations dependent on particular manageable entities;

selecting, based on a level of overview scrutiny of the network, objects indicative of performance to monitor, selecting the objects indicative of performance to monitor further comprising; and

designating the determined manageable entities as manageable entities of interest;

computer program code for determining relations between the managed entities of interest and other managed entities in the storage area

network, the relations indicative of an event at a managed entity having an affect on another managed entity;

computer program code for registering for notification of events affecting, based on the determined relations, the identified manageable entities;

computer program code for receiving an indication of an event affecting a registered manageable entity; and

computer program code for determining, via the determined relations, other manageable entities affected by the received event.

25. (Canceled)

26. (Currently Amended) An infrastructure server for identifying the impact of event occurrences in a managed ~~information-storage area~~ storage area network comprising:

means for identifying a configuration of managed entities of interest in the storage area network, identifying the configuration further comprising:

determining, based on a set of business processes, business operations dependent on particular manageable entities;

selecting, based on a level of overview scrutiny of the network, objects indicative of performance to monitor, selecting the objects indicative of performance to monitor further comprising; and

designating the determined manageable entities as manageable entities of interest;

means for determining relations between the managed entities of interest and other managed entities in the storage area network, the relations indicative of an event at a managed entity having an affect on another managed entity;

means for registering for notification of events affecting, based on the determined relations, the identified manageable entities;

means for receiving an indication of an event affecting a registered manageable entity; and

means for determining, via the determined relations, other manageable entities affected by the received event.

27. (Previously Presented) The method of claim 1 wherein the determining the other manageable entities further involves checking a memory of a local server for a match of the managed entities of interest, the matching managed entities of interest used in the determining, otherwise the determining checks for the match of the managed entities of interest in a database of the managed entities of interest.

28. (Previously Presented) The server of claim 14 wherein the rule engine is further operable to:

check a memory of a local server for a match of the managed entities of interest using a found match to determine the relations between the managed entities of interest and the other managed entities in the storage area network, otherwise the rule engine checks for the match of the managed entities of interest in a database of the managed entities of interest.